

09/786009 A

**SEQUENCE LISTING**

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EVANS, Thomas C.

1120 • Intein Mediated Peptide Ligation

•130 • NEB-150PUS

(140) 69,786,009

(141) 1999-03-30

(150 + 60) / 102, 41 %

1151-1399-03-30

4150 · PCT/US39/22776

• 1151 • 1999-03-30

• 160 • 3

• 100 • PatentIn Ver. 2.0

250

- 211 - 45

## ANSWER

### • 213 • Artificial Sequence

240

.215) Description of Artificial Sequence: the modified C-terminal splice junction of the intein from the *cyrA* gene of *Mycobacterium xenopi*

• 4 (1) • 2

ggtttcgttcag ccacgctact ggcctcaccg gttgtatagct gca

43

12102

卷之三

### $\lambda$ -DNA

### 22.3 Artificial Sequence

8

• 225. Description of Artificial Sequence: the complementary strand of the C-terminal splice junction of the modified intein from the *gyrA* gene of *Mycobacterium xenopi*

• 88 •

JULY 1940 33: Gaggle of 4000 birds seen just

2210 (3)

212 65

2212 · DNA

### 2213. Artificial Sequence

-1220-

• Description of Artificial Sequence: the polylinker sequence inserted upstream of the modified intein from the *gyrA* gene of *Mycobacterium xenopi*

- 3 -

tcggatcttag acatatggcc atgggtggcg ggcgcctcga gggctttcc tgcatacacgg 60  
tgcatacacgg 68

210 - 4

• 221 • 63

• 222 • DNA

### • 113 • Artificial Sequence

- 1 -

• 211 • At position 41, "H" = A or C or T.

200

• 253. Description of Artificial Sequence: the complementary strand of the polylinker inserted upstream of the modified intein from the *gyrA* gene of *Mycobacterium xenopi*

• 111 •

Anti-angiogenesis and angiopoiesis targeting antiangiogenic hyaluronic acid conjugates

• 111 • 5

• 111 • 6109

### **• 2.2. cDNA**

### • 2130 Artificial Sequence

卷之三

4228. Description of Artificial Sequence: pTXB1 plasmid sequence containing the modified intein from the *gyrA* gene of *Mycobacterium xenopi*

• 14 • 15

aatatacgatca ggtggggactt ttccggggaaaa tggggcgcggga aacctatctt gtttattttt 60  
 tcataatcatat tcaaaatatgt atcccgatcat gagacaataaa ccctgtataaa tgcttcaataa 120  
 atttttaaaaaa agccggatctta taaatatttta aratatttcgt gtcgtttttt a tttccctttt 180  
 tggccgtttttt tgcttccctg tttttgttca ccctggaaacg ctggtgaaag taaaatgtgt 240  
 ttcgtttttttt ttcgggtttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 420  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 480  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 540  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 600  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 660  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 720  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 780  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 840  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 900  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 960  
 tttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1020

attgtataag caaatattta aattgtaaac gtaatattt tgtaaaaatt cgcgtaaat 1140  
tttgttaaa tcagctcatt ttttaaccg taggcggaa tggcdaaaat cccttataaa 1200  
tcggaaat agcccgagat agggttgagt gtgttucag tggggccaa gagtcacata 1240  
ttggaaacg tggactccaa cgtcaagggg cggaaaacccg tttatcaggg cgttggccca 1280  
ctacgsgaac catcacccaa atcaagttt tgggggtcga ggtgcgttaa agcaataat 1320  
cggaaccta aaggggagccc cggatttaga gtttgaagggg gaaaggcggc gaaatgggg 1440  
agaaaaggaa ggaagaaaagc gaaaggaggg ggccgttaggg cgttggcaag tgtagggg 1480  
acgtggcgcc taaccaccaz acccgccggc cttatcgcc cgttacaggg cgggtaaaag 1520  
gatcttaggtg aagatcttt ttgataatct catgacccaa atcccttaac ggaggttts 1610  
gttccatgtg ggtttagacc cgttagaaaa gatcaaggaa ttttttggag atcccttttt 1680  
tgggggggtt atttgtgtt tggaaaacaa aaaaccaccc ttttttttttgggggggtt 1740  
ggggatcaa gagttccaa tttttttcc ggggttaact ggctttagca gagggcagat 1800  
accataact gttttttag ttttttttttggggatccatccaaaga atccctgttgc 1860  
ccggccata ttttttttttggggatccatccaaaga atccctgttgc 1920  
gtgggtttt accgggttgg actcaaggccg ataggtaaccg gataaggccg agggggccgg 1980  
ttgaacgggg ggttggccca cacagcccg ttttttttttggggatccatccaaaga atccctgttgc 2040  
ataccatacg cgttgcgtat gagaaaaggccg ctttttttttggggatccatccaaaga atccctgttgc 2100  
gtatccggta aegggcagggg tggggccagg agggggccgg agggggccgg aagggggggaa 2160  
cgcttggat ttttttttttggggatccatccaaaga atccctgttgc 2220  
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gttccatgttgc ttttttttttggggatccatccaaaga atccctgttgc 2340  
tgtggataac cgttattaccc ttttttttttggggatccatccaaaga atccctgttgc 2400  
cgagccggcc gggccggcc gggccggcc gggccggcc gggccggcc gggccggcc 2460  
atggccata gtttttttttggggatccatccaaaga atccctgttgc 2520  
gttttttttttggggatccatccaaaga atccctgttgc 2580  
cggttacaga caatgttgc cgttccggc gggccggcc 2640  
atccacccggaa cggccggccggcc aggttccggc 2700  
acagatgttgc ggttccggc cgttccggc 2760  
ttggggccggcc attttttttttggggatccatccaaaga atccctgttgc 2820  
ccctccggccggcc agggggaaat ttttttttttggggatccatccaaaga atccctgttgc 2880  
atgttccatccaaaga atccctgttgc 2940  
aaaccaactgg cggatccggat gggggggccg cggccggccggcc 2980  
ccggccggcc gggccggccggcc ttttttttttggggatccatccaaaga atccctgttgc 3040  
tttttttttttggggatccatccaaaga atccctgttgc 3100  
atccggataa cggccggccggcc ttttttttttggggatccatccaaaga atccctgttgc 3160  
ccggaaaatgttgc cggccggccggcc ttttttttttggggatccatccaaaga atccctgttgc 3220  
gttttttttttggggatccatccaaaga atccctgttgc 3280  
aaggttccatccaaaga atccctgttgc 3340  
attttttttttggggatccatccaaaga atccctgttgc 3400  
tggggccggcc ttttttttttggggatccatccaaaga atccctgttgc 3460  
tttttttttttggggatccatccaaaga atccctgttgc 3520  
atccaaatgttgc ttttttttttggggatccatccaaaga atccctgttgc 3580  
ccggccggccggcc ttttttttttggggatccatccaaaga atccctgttgc 3640  
tttttttttttggggatccatccaaaga atccctgttgc 3700  
ccggccggccggcc ttttttttttggggatccatccaaaga atccctgttgc 3760  
tttttttttttggggatccatccaaaga atccctgttgc 3820  
atccaaatgttgc ttttttttttggggatccatccaaaga atccctgttgc 3880  
ccggccggccggcc ttttttttttggggatccatccaaaga atccctgttgc 3940  
tttttttttttggggatccatccaaaga atccctgttgc 4000  
atccaaatgttgc ttttttttttggggatccatccaaaga atccctgttgc 4060  
ccggccggccggcc ttttttttttggggatccatccaaaga atccctgttgc 4120  
tttttttttttggggatccatccaaaga atccctgttgc 4180  
atccaaatgttgc ttttttttttggggatccatccaaaga atccctgttgc 4240  
ccggccggccggcc ttttttttttggggatccatccaaaga atccctgttgc 4300  
tttttttttttggggatccatccaaaga atccctgttgc 4360  
atccaaatgttgc ttttttttttggggatccatccaaaga atccctgttgc 4420

2210 - 6

211 · 30

二〇一〇·二〇

### 213 · Artificial Sequence

220

0723. Description of Artificial Sequence: synthetic peptide

• 2 •

For more information about the study, please contact Dr. Michael J. Hwang at (314) 747-2146 or via email at [mhwang@dfci.harvard.edu](mailto:mhwang@dfci.harvard.edu).

Glu Ser Asn Pro Ily Val Phe Val His Thr Asp Ala Ser Val  
20 25 30

:210: 7  
:211: 13  
:212: FRT  
:213: Artificial Sequence

:220:  
:223: Description of Artificial Sequence: the amino acid  
sequence deduced from the polylinker region of  
pTXB1

:400: 7  
Met Ala Met Gly Gly Arg Leu Glu Gly Ser Ser Cys  
1 5 10

:210: 8  
:211: 42  
:212: DNA  
:213: Artificial Sequence

:220:  
:223: Description of Artificial Sequence: polylinker  
region upstream of the modified intein from the  
gyrA gene of *Mycobacterium xenopi* in pTXB1

:210: 8  
ttataggcua tgggtggcga ccgcctcgag ggctcttctt qc 42

:210: 9  
:211: 7  
:212: FRT  
:213: Artificial Sequence

:220:  
:223: Description of Artificial Sequence: synthetic  
peptide

:400: 9  
Cys Asp Pro Glu Lys Asp Ser  
1 5